

MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS - 1963 - A

JUL 83
DR 1307
AD

METEOROLOGICAL DATA REPORT

19320C MIRS
Missile Number FV3-19,
FV3-17, FV3-09
Round Number 464/AT2-34,
465/AT2-35, 466/AT2-36
9 JUL 83

py

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ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

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#### INTRODUCTION

19320C MLRS, Missile Numbers FV3-19, FV3-17, and FV3-09, Round Numbers 464/AT2-34 465/AT2-35 and 466/AT2-36, were launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1000:00, 1000:05, and 1000:10 MDT, 9 July 82. The scheduled launch times were 1000, 1010 and 1020 MDT.

#### DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

#### 1. Observations

#### a. Surface

- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m<sup>3</sup>), wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

#### b. Upper Air

(1) Low level wind data were obtained from Pilot-balloon observations at:

### SITE AND ALTITUDE

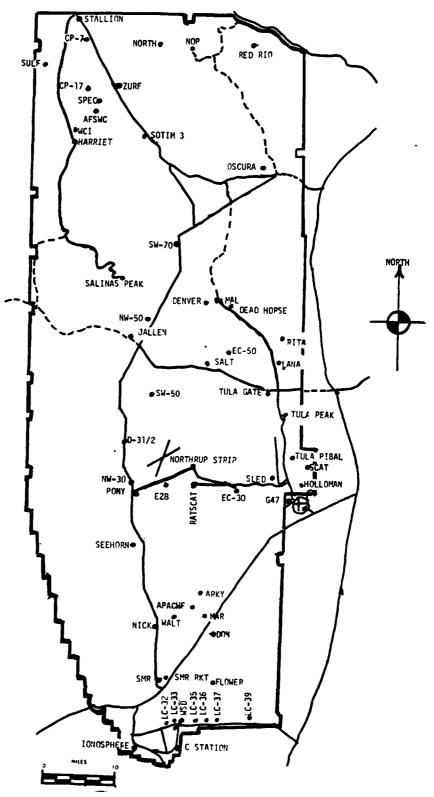
LC-33 1350 meters DON 2000 meters

(2) Air structure data (rawinsonda) were collected at the following Met Sites.

#### SITE AND TIME

LC-37 0810 MDT WSD 0830 MDT WSD 1010 MDT

# WSMR METEOROLOGICAL SITES



	LC-33 NCPTH
	Launch Area
	WEST
	<b>A</b>
	1 inch = 250 ft -
Υ135,5Ω0	
	FIRE
	Ö
-	
	O nemometer Pole #3
Y186,000	O Anemometer Pole #2
MET O T-9 Radar	L-579A 0 0 L-519A
	L-351A 0 = 0 L-350A
	o O
	ne tel
	Anamonie ter
7185,500	
X485	7465 4506 5064 5064 5064 5064 5064 5064 5
1	L-500 A
Y135,000	

WOLLAWA BEND BORREOUS LOGICAL

1456 2	-						STATION IC-33	1.6-33		
BATE - 9	JOE	83					184,982.6		"= 484,982.64 Y= 185,957.73 H= 3995.00	3995.00
11.1 2 d 1	285.385 853.385	3 × 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	18104 SEC	25 25 26	151131 151131 8	£37/55 7.115137	1 -1	WIND SPEED kts	DIRECTION SPEED CHARACTER degs In kts	VISIBIL- ITY
1000	883.7	30.0		14A	39		123	8		07

REMARKS			
3rd LAYER	TYPE   HGT		
[ 3r	4:11		
2nd LAYER	HST	००० 'टा	
d LAYE	TYPE	AC	
2n	AM	-1	
ε	HGT	9	
1.1.1.5	11PE	9	
ls t	AMT   TYPE   HGT	0	
185 <b>78</b> 277 815	The 110 istuity		

PSYCHROPETRIC COMPUTATION

TI!'E: MDT	1000	
DRY BULB TETP.	30.0	
WET BULB TEMP.	19.4	
HET BULB DEPR.	10.6	
DEW POTRT	५. मर	
PELATIVE HUMID.	39	

TABLE 2 LC-33 FIXED POLE ANEMOMETER MEASURED WINDS

POLE #1 X485,874 Y185,958 H4018.74 38.7 ft	3.90 4		X485,874.29 Y186.012.00 H4033.57 X485, Y186, H4063		POLE #3 X485,87 Y186,11 H4063.9 83.6 ft	877.29 116.06 .92		
T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED K <b>NOT</b> S	T-TIME SEC	DIR DEG	SPEED KNOTS
<b>T</b> -30	119	05	<b>T</b> -30	177	02	<b>1</b> 30	175	06
<b>-20</b>	118	05	<b>y</b> -20	180	01	<b>r</b> 20	182	05
<b>T</b> -10	131	05	<b>T</b> -10	188	Ol	<b>r</b> 10	183	05
<b>T</b> 0.0	134	03	<b>T</b> 0.0	188	01	<b>10</b> .0	182	04
<b>T</b> +10	132	03	<b>T</b> +10	186	00	<b>T+10</b>	189	05

TABLE 3 LC-33 METE	EOROLOGICAL TOWER	ANEMOMETER MEASURED W	IINDS (202 F	T TOWER)
--------------------	-------------------	-----------------------	--------------	----------

LEVEL #1, 12 X484,982.64	? FEET , Y185,057.7	3, H3983.00 (base)	LEVEL #2, 62 X484,982.64		3, H3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS
<b>T</b> -30	136	02	<b>T</b> - 30	152	05
<b>T</b> -20	141	03	<b>T</b> -20	131	03
<b>n</b> - 10	125	06	<b>m</b> -10	138	05
<b>T</b> 0.0	123	05	<b>T</b> 0.0	135	07
<b>T</b> +10	136	Off	<b>T</b> +10	138	06

LEVEL #3, 10 X484,982.64	02 FEET , Y185,057.7	3, H3983.00 (base)	LEVEL #4, 20 X484,982.64		3, H3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS
<b>T-</b> 30	151	03	<b>T</b> -30	147	03
<b>T-</b> 20	101	02	<b>T</b> -20	139	02
<b>T-</b> 10	136	05	<b>T</b> -10	139	03
<b>T</b> 0.0	138	06	<b>T</b> 0.0	158	05
<b>m</b> +10	134	06	<b>T</b> +10	139	04

## T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 9 July 83

SITE: LC-33

TIME: 1000 MDT

WSTM COORDINATES:

X= 434,837.34

Y= 184,124.44

H= 3,975.57

SITE: DON

TIME 1000 MDT

WSTM COORDINATES:

X= 511,988.37

Y= 247,396.36

H= 3,996.83

METERS AGL	DEGREES	KNOTS
SURFACE	120	05
150	174	05
210	163	04
270	150	O <sup>1</sup> 4
330	147	04
390	152	05
500	156	05
650	170	05
800	171	10
950	177	09
1150	175	05
1350	147	06
1550	END O	F DATA
1750		
2000		

Data obtained from a Double Theodolite Tracked pilot-balloon observation.

LAYER MIDPOINT	DIRECTION	٤	,
METERS AGL	DEGREES	Ĩĸ	2
SURFACE	160		
150	180		τO
210	180		10
270	178		08
330	174		07
390	172		06
500	168		05
650	164		06
800	161		09
950	166		11
1150	172		12
1350	168		11
1550	155		12
1750	151		10
2000	162		08

Data obtained from a Single Theodolite Tracked pilot-balloon observation.

## AIMING AND T-TIME COMPUTER MET MESSAGES

# 9 July 1983

LC-37 0810 MDT	wsd 0830 mdt	WSD 1010 MDT
METCM1324063	METCML324064	METCM1.324064
091420124882	091450122884	091620122884
00213008 29950882	00213002 29980884	00302008 30420884
01214012 29900872	01200006 29950874	01280005 30270874
02271005 29780847	02236005 29770849	02257004 29950849
03327007 29490809	03290007 29430811	03257006 29520811
04308006 29190763	04325008 29140765	04271.006 29200766
05348005 28780720	05360007 28770721.	05343003 28800722
06059002 28400678	06325001 28340680	06427001 28360680
07089018 28050638	07073014 28000640	07078017 28010640
08089022 27570600	08087020 27600602	08112020 27640602
09148018 27310564	09145017 27330566	09213010 27470566

STAIIDA ALTITURE 4051, 77 FF.F MSt. V JULY 63 V JULY 63 ASCERSION NO. 99

į

SISVIFICANT LEVEL DATA
10-0120050
LC-37

6E0DETIC COORDINATES 32.40175 LAT DEG 106.31232 LON DEG

ą

STATION ALTITUDE 4051.77 FEET PSE TOUTON OUTPIN ON TOUTON OUTPONS OBJOINT PORTA ASCENSION NO. 95

GEODETIC CUORDINATES 32.4.0175 LAT DEG 106.31232 LON DEG

----

STATION ALTITUDE 4051. 37 FELT MSL 5 JULY 35 OBLO MOT ASCENSION NO. 99

GEODETIC COORDINATES 32.4U175 LAT DEG 106.31232 LON DEG

PRESSURE GEOPOTENTIAL	<b>DPUTENTIAL</b>	16 4 6	'E RA TURE	REL.HUM.	DONIA	ATA
		AIR	AIR DEVPOINT	PE R CE NT	DIPE CTION SPE	SPEED
MILLIHARS	FLET	DEGREES	CENTIGRADE		DEGGLESCIA)	KNOTS
6.06.9	• 160′	52.8	12.4	52.	144.0	5.6
נֿ •רח״	CR 13.	19.2	11.0	59.	180.2	7.4
0.75c	5556.	15.2	8.4	51.	176.8	5.7
7.00°	10546.	11.1	7 · V	58.	188.7	3.6
650.0	12566.	7.7	~.	59.	41.3	4.4
0.00	14711.	1.4	7.5-	75.	54.1	21.1
750.0	16030.	7	-19.8	21.	100.1	15.0
7.00°	19482.	Z . 5-	-23.6	21.		

6EODETIC CORMITANTES 32-40043 LAT LEG 106+37033 LOH DEG						-														
۸ ا ۸ ا	WIL-HUM.			. 0.43	47.0	51.0	61.0	9.66	64.0	72.0	74.0	0.50	0.60	0.78	0.44	36.0	20.0	18.0	19.0	18.0
SIGNI ICANT LEVEL UATA 19000,0344 WHIT SANDS	TE MPERATORE	DE MPOLITI	DEGREES CETTIORAGE	14.6	12.9	12.2	10.7	2.6	6.7	100	J.,	ť	-:	۵ ۱	0.0-	-15.9	4.07-	-21.2	-20.7	-20.4
SIGUI 10	TEMP	A18	DrGREFS	24.5	25.0	22.9	18.4	17.9	13.4	10.9	7.8	6•9	5.1	1.3	ç.	7	۲.٠	.3		-4.8
11 <b>5</b> 1.	DIALAME GLOSSAL	AI TITIFIE	MILLIMANS MET FEET	1989.0	404 / •8	5115.9	6.750.5	7533.2	9714.2	10564.4	11483.7	12429+3	13481.6	14434.5	15.522.4	15987.6	16362.4	10724.4	17080.8	19516
5141104 ALFITYDL 3489400 F.FT RSL 9 JULY 43 45CL4517F110+ 344	Batherald		MILL 11. AK	F18 5. 9	1.689	<b>0.°</b> νς <i>β</i>	E	740.5	721.9	700.00	U•149	0.53.7	624.7	59, • 3	1.96.4	572.1	J. 195	55%	540.7	<b>0•</b> 00€

STATION ALTITUDE 9 JULY 83 ASCENSION NO. 3	تا ع	3,339,09 FLL 1 0830 MDT	75 17		UPPER AIR DAIA 190024344 WHITE SMIUS	A 54 54 54 54 54 54 54 54 54 54 54 54 54		VEONET1 32• 106•	VEODETIC COMBINATES 32-40043 LAT DEG 106-37033 LON DEG
GFONETRAC AUTITODE NSE FLET	PRESSURE HELLIBARS	A I DE CK	TEOPERATORE R DEWPOINT RFG CENTIGRAPE	KEL, HIM. PERCENT	DFNSITY GM/CUBIL METER	SPEEU OF SOUND NLOTS	WIND DATA DINICTION SI	114 SPLFU KNOTS	INJEX OF REFRACTION
2.0008	46.0.9	24.5	14.0	154 • N	1027.1	67404	120.0	1.9	1.000300
41100.0	883.6	9446	14.3	52.7	1020+6		120.3	2.0	1.001299
9500.0	860.	74.1	12•0	48.7	1011.1		131.6	5 <b>.</b> 6	1.00n288
0.0000	855.4	23.1	12.3	50.6	0.100		138.4	3.3	1.000284
0.0050	834.5	21.8	11.9	53.4	984.0		142.7	4.0	1.000280
0000	H23.9	0.00	11.5	56.4	971.4	7.699	155.0	S•1	1.000276
0,000	80.3.0	13.1	11.0	59.4	959.1	068•1	109.7	7.1	1.000272
Juna.c	19:5.61	18.2	10.4	£0.3	945.2	0.7.99	170.6	<b>8.</b> 4	1.000207
1500.1	1,010/	17.9	ე•r	59.1	929.7	_	181.1	<b>ት•</b> 6	1.000202
3000.0	76/06	16.4	۱•،	60.1	916.5	4.600	181.9	8.1	1.00n257
0.560.0	754.0	15.4	J•8	61.2	903.6	6.499	163.3	9•9	1.000252
9800.0	740.6	14.49	7∙8	62.4	890.9	663.0	191.8	<b>5</b> •3	1.000247
95064	5.121	13.8	7.0	63.5	878.4		198.3	6.1	1.000242
19000.6	714.5	12.0	ń•5	66.7	866.7	7.000	202.0	5•6	1.000238
0.00001	701.6	11.1	<b>6.1</b>	71.4	855.0		1.203.4	7.7	1.000235
1000	6.084	o.v	5.5	72.7	2.63.6	657.0	199.2	2 • 4	1.000230
11:00.0	h-074	8.7	7.11	73.4	812.2	9.669	77.5	.7	1.000225
1.2000.0	664.1	7.00	6.6	72.1	820.5	654.2	<b>†•</b> 0+	£. 5	1.00~219
9.00cz	654·0	6.3	``	65.3	808.4	-	40.3	<b>∌•</b> €	1.000211
3000.n	0.044	5.9	٠.	67.2	790.0		43.0	12.9	1.000200
3500.6	6,20.3	5•1	1	69.2	783.ts	651.0	6.44	16.5	1.000204
4000	9.019	3.7	2•-	75.6	773.0		47.2	18.7	1.000202
4569.0	603.2	5.8	<del>*</del> , • -	82.0	762.4	647.8	₽ <b>.</b> 6₽	20.1	1.00n200
15000.0	9000	1.0	-1.0	86.6	751.9		51.9	20.6	1.00n196
5506.0	SH2.A	~:	-2.tb	84.5	741.0	0.440	4.60	19.7	1.000191
100001	571.8	<b>7</b>	-1,1-0	35.5	730.1	543.5	70.4	18.7	1.000173
10500.0	1.199	٠.	-20.7	19.2	715.0		87.1	16.4	1.00n165
17000.0	350.5	<b>.</b>	-2u•B	18.8	701.2	044+3	7.401	15.4	1.000102
17500.0	540.1	7	-21.5	18.8	1.069	643.2	112.4	14.7	1.000159
1800a	A.454	-1.7	-27.5	18.6	679.6	642.0	114.9	14.6	1.000157
0.0068	519.8	-2.8	-23.5	18.4	669.2		112.5	14.9	1.000154
19000.0	569.4	-3.8	4.11.7-	18.2	0.659	639.6			1.400151
1.500.0	500.5	H + H	-25.4	18.0	0.649	638.4			1.000149

MARIDA FORY LEVELS 1900026344 WHITE SAINDS	
51A110u ALTITUDE 3989,00 F; T MSL o July 63 ASCERSIOU 100, 344	

VEODETIC COORDINATES 32+41043 LAT DEG 106+37033 LOH DEG

DATA	SPT EU KHOTS	3.4				3.6	.0%	15.4	•
L DILW	DEGREES(IN) KHO	139.5	174.8	145.7	203.1	6.04	50.5	104.4	•
KEL . Hum.		51.	610	· (c)	7	j .		19.	10.
TEAPERATURE	CFN TIGRADE.	12.2	10.0	8.2	6.1	.7	3.1	-20·B	-25.4
16 16 M	DEGREFS	22.0	14.3	15.6	10.9	9•9	1.7	-	9.4-
OPOTENETA	FEET	5110.	6832	66.114.	10554.	12570.	14713.	17002.	19485.
PRESCURE LEOPOTENITAL	MILLIPAKS	n50.1	P.000.0	750.0	706.0	650.1	600.	6.50.6	6.00c

STATION ALTITUDE SONG. OU FLET MSL	1010 MUT	
3:3		, 117
ALTI100c	1.3	
STAILOR	9 JULY B.3	ASCH NS1.

DA;A		
SIGHIFICANT LEVEL	190"(120,545	WHITE SARDS

GEODETIC COONDINALES 32+40043 LAT DEG 106+57033 LOT DEG	OTHAIFS	LAT LIFG	LON PEG
و.	GEODETIC COUR	32+40043	106.37033

HERCENT	0.5.4	U•0+	54.0	0.00	57.0	6.2.0	0.40	72.0	0.50	73.0	18.0	17.0	17.0
TEMPEKATUKE ATR DEMPOLITI OFGREES CENTIONALE	15.2	14.7	14.5	12.0	9•6	7.5	3.4	9.0	1.0	G.1-	-14.3	-21.0	-27.0
TEMPEL ATR I OF GREES	9000	26.6	24.2	20.0	18.5	12.8	11.1	<b>8.6</b>	7.8	2.8	5•6	1.3	-6.0
GLOMETRIC ALTITUDE MSE FEFT	3080.0	4461.3	5120.8	6305.8	7551.2	10043.6	10581.8	11520.3	1227000	14224.7	14025.4	16510.9	19533.8
PRESSURE	88.5.8	36.4.6	856.0	810.5	784.4	713.81				0.11.9		_	506.0

GEODETTC COURNITIATES 32+41093 LAT DEG 106+37033 LOT DEG	I OF OF REFRACTION	8.0 1.000297	-	7:3 1.00n294	-	-	-	6.0 1.00r274	6.3 1.nnn26.8	-	6.3 1.000256	5.7 1.000251	4.8 1.000246	~	~	-	7	-	1	-	_	-		~	~	~	11.2 1.00016.7	-	-		12.0 1.000156		1.000151	1.000149
GE.0D	WIGD DATA DIRECTION SPEED LEGREESCIN KNOTS	170.0																														120.9		
UPPER ATR DATA 1960020345 VHITE SANDS	PEUSITY SPIELL OF GMZCHRL SOURD METER KIOIS	1011.5 679.7		1002.4 676.8		-		957.1 bec.9	942.5 uhu-1	928-1 067-4	915.3 often	1.697 8.700	800.5 063.5	476.4 c61.4	866.4 666.5	A55.7 c56.6					700.5.00		_	~		•		712.3 645.7	7.440 6.10L	691.7 092.0	_		<u>ي</u>	652.3 037.0
٦	KEL.HIM. I ERCHIT	43.0	43.1	4.8.4	655	6.54	5.A.5	59.5	5R+3	57.1	57.6	5,A.O	5.64	6.04	5. TS	63.7	67.tb	71.8	67.6	p.?.a	6A•0	70.0	72.1	51.4	18.0	17.6	17.3	17.0	17.0	17.0	17.0	17.0	17.0	17.0
, 1 HSI OT	SURE TEAFRATURE ADS DEWPOLUT DARS DEGREES CENTIFRADE	-	1.51	1.01	_	_	_	11.7	10.8	f.•u	1.0				£•.°		4.5			-	₹.		<b>?•1-</b>		10.4		•							0.42-
3yearno Fri 1 LOLO NDT	TE ADR DEGREE	0.60	28.9	76.7	34.6	22.50	71.1	1.3.4	19.2	18.6	17.5	10.3	15.2	14.0	12.0	11.4	10.9	8.7	8.1	7.2	σ•s	4.7	3.4	2.7	<b>5.</b> 2		1.7	1+3	•	-1.1	-2+3	ر٠٤٠	1.4-7	-6.4
۳ <sup>۱۱</sup> ۵۰ نور ۰	PRESSURE NILLIDARS	MA3.8	485.5	860.4	45,006	B38.A	1124.3	80.7.0	795.1	781.8	160.P	154.3	741.6	121.8	714.4	7n2.1	689.4	670.9	4.494	4.250	h•0#0	95029	0.11¢	603.6	5.464	49.5	774.3	9•196	151.0	0.004	1.00.	2.054	\$ -014	9•0U¢,
STATION ACTITUDE 9 JULY 63 ASCENSION NO. 3	GEONLTRIC ALTITUOL MSL HELI	5489.0	4000.0	45nP.1	6.0000	5500.0	9•0000	0.00.0	740r.	7569.0	3000	1,5,000	Deale.	<b>0.00</b> 0€€	10000	14500.0	11009.0	11,,00.0	12000.0	12509.0	15,100.0	1.5500.0	14000	14,,00	15000.0	15599.6	10000	10,760.0	17000.	17,000.0	D. Dining	1.3500	1.0000.1	19500.6

MANDA FORY LEVELS 1900020345 WHITE SANDS	
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STAFFOR ALFITUAL 3349-00 F., T MSL. 9 JULY 113 1010 MDP ASCRIBILAL 140. 545

6EODETIC COURDINATES 32+40043 LAT DE6 106+37033 LOD DE6

PRESSURE (	IV I DEOTETH (A)	TFRAF	TEMPERATURE	REL.NuM.	WING DAIA	AIA
MILLINARS	FLET	OF GREFS	CENTIGRADE			K11015
P.56 . 1	5117.	24.2	14.3	54 •	157.2	9•0
0.00A	times.	19.3	11.1	59.	151.1	0.5
750.0	8660.	16.0	A•0	59•	154.1	5.4
700.0	16'>71.	11.1	O• <del>()</del>	••5	222.3	5.3
650.0	12548.	7.0	1.1	•09	33.9	12.1
0.009	14730.	2.7	-12.4	32.	8.69	19.8
550.0	17030.	·	-22.1	17.	136.8	11.2
6.003	19506.	0.0-	-27.0	1/.		

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